

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (previously presented) A spatial data relationship displaying method comprising:

acquiring server definition data representing an outline of features of data having a hierarchical structure generated by a server;

acquiring application definition data representing an outline of features of data having a hierarchical structure generated by an application which manipulates objects including manipulating spatial relationships between the objects;

acquiring server object property structure data which corresponds to the server and application object property structure data which corresponds to the application;

generating a relationship between an object of a first image as defined by the server and an object of a second image as defined by the application based on the server definition data, the application definition data, the object property structure data and thesaurus data;

displaying object hierarchical structure data of the server, and object hierarchical structure data of the application, with the generated relationship;

graphically indicating on a display the generated relationship between said object of the first image as defined by the server and said object of the second image as defined by the application ;

displaying the object property structure data of an object pointed to by indication means on the display; and

modifying and deciding the relationship between the objects based on a confirmation operation input from the indication means.

2. (previously presented) A spatial data relationship displaying method according to claim 1, wherein in displaying the object hierarchical structure data, the form of display is changed depending on the type of a parent/child relationship between the objects.

3. (previously presented) A spatial data relationship displaying method according to claim 1, wherein in displaying the object hierarchical structure data, an object of a lowermost layer and an object of an intermediate layer are distinctively displayed.

4. (previously presented) A spatial data relationship displaying method according to claim 1, wherein in displaying a relationship between the objects, a similarity between the objects is displayed in a form reflected by types of lines or thickness of the lines.

Claim 5 (canceled).

6. (previously presented) A spatial data relationship displaying method according to claim 1, wherein the relationship between the objects is

displayed in an order of a degree of certainty representing a height of a degree of association between the objects.

7. (previously presented) A spatial data relationship displaying method according to claim 1, wherein the object hierarchical structure and/or the relationship between the object are displayed with distinctions of each view selected by a user.

8. (previously presented) A spatial data relationship displaying method according to claim 1, wherein in generating the relationship between the objects the relationship is generated by replacing a name of the object of the server or the application using the thesaurus data.

9. (previously presented) A spatial data relationship displaying method according to claim 1, wherein in generating the relationship between the objects the relationship is generated by corresponding object property data of the objects of the server and objects of the application.

10. (previously presented) A spatial data relationship displaying method according to claim 8, wherein in generating the relationship between the objects the relationship is generated by corresponding object property data of the objects of the server and objects of the application.

11. (previously presented) A spatial data relationship displaying method according to claim 1, further comprising:

displaying a list of the server definition data and a list of the application definition data on the display.

12. (previously presented) A spatial data relationship displaying method according to claim 8, further comprising:

displaying a relationship between the object property structure data of the objects pointed to by the indication means.

13. (previously presented) A spatial data relationship displaying method according to claim 9, further comprising:

displaying a relationship between the object property structure data of the objects pointed to by the indication means.

14. (previously presented) A spatial data relationship displaying system comprising:

a memory for storing thesaurus data;

a display for displaying data;

an indication device for inputting an instruction from a user; and

a central processing device for acquiring server definition data representing an outline of features of data having a hierarchical structure generated by a server, application definition data representing an outline of features of data having a hierarchical structure generated by an application which manipulates objects including manipulating spatial relationships between the objects and server object property structure data which corresponds to the server and application object property structure data which

corresponds to the application, generating a relationship between an object of a first image as defined by the server and an object of a second image as defined by the application based on the server definition data, the application definition data, the object property structure data and the thesaurus data, displaying object hierarchical structure data of the server and object hierarchical structure data of the application with the generated relationship, and graphically indicating on the display the generated relationship between said object of the first image as defined the server and said object of the second image as defined by the application,

wherein the central processing device displays the object property structure data of an object pointed to by the indication device on the display, and modifies and decides the relationship between the objects based on a confirmation operation input from the indication device.

15. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing device generates the relationship between the objects by replacing a name of the object of the server or the application using the thesaurus data.

16. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing device generates the relationship between the objects by corresponding object property data of the objects of the server and of the application.

17. (previously presented) A spatial data relationship displaying

system according to claim 15, wherein the central processing device generates the relationship between the objects by corresponding object property data of the objects of the server and of the application.

18. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing device displays a relationship between the object property structure data of the objects pointed to by the indication device on the display.

19. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing device displays a list of the server definition data and a list of the application definition data on the display.

20. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing device displays a similarity of the relationship between the objects in a form of types of lines or thickness of the lines on the display.

21. (previously presented) A spatial data relationship displaying system according to claim 14, wherein the central processing unit displays the object hierarchical structure and/or the relationship between the object with distinctions of each view selected by the indication device.

22. (new) A spatial data relationship displaying method comprising:

select-inputting an application to be displayed with a relationship between objects and a relationship between properties;

select-inputting a server to be displayed with the relationship between objects and the relationship between properties to the application;

retrieving an application definition data and an object hierarchical structure data of the application from a first data memory based on the selected application;

retrieving a server definition data indicating an outline of map information and an object hierarchical structure data of the server from a second data memory based on the selected server;

applying a similarity to generate the relationship between objects, the similarity being based on a result of comparing a name defined by the object hierarchical structure data of the application with a name defined by the object hierarchical structure data of the server;

outputting the generated relationship between objects in accordance with the similarity;

retrieving an object property structure data of the application in connection with an object in which the relationship between objects is generated, from the first data memory;

retrieving an object property structure data of the server in connection with an object in which the relationship between objects is generated, from the second data memory;

generating the relationship between properties based on a result of comparing a data type defined by the object property structure data of the application with a data type defined by the object property data of the server,

if a name defined by the object property structure data of the application is matched with a name defined by the object property structure data of the server as a synonym;

outputting the generated relationship between properties;

retrieving an object data including the map information, from the second data memory;

converting a figure data of the object data into a first object structure defined by the application based on a value of a unit system or a coordinate system defined by the application definition data and the server definition data;

converting a remaining data other than the figure data of the object data into a second object structure defined by the application based on the relationship between properties; and

outputting the first object structure and the second object structure.

23. (new) The spatial data relationship displaying method according to claim 22, wherein a line type reflecting the similarity of the relationship between objects is displayed.